



深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线测试报告

Antenna Test Report

Manufacturer: SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Address: Room 1506, Tangwei Shareholding Business Building, Tangwei Community, Fuhai Subdistrict, Bao'an District, Shenzhen City

TC: 金视通

MN: 120SA-L

RF: 关巍

MD: 黄清清

MP: 19918388579

Date: 2025. 4. 3.

REV : V1. 0



ANTENNA

深圳市星源创科技有限公司

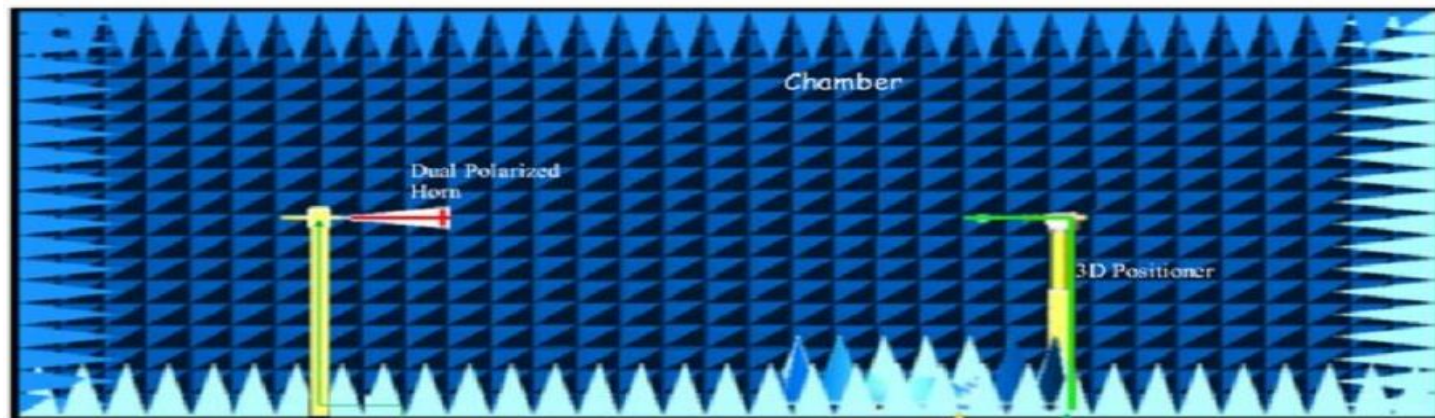
SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

测试信息

Test information

	Antenna band		Antenna state	Antenna form	Match changes	Note
Main ANT	2G		FPC	PIFA	NO	
	3G					
	4G					
AUX ANT	BT/WIFI	2.4/5G	FPC	PIFA	NO	
	GPS	1.575G	FPC	PIFA	NO	
	DIV		FPC	PIFA	NO	

OTA Chamber Overview

0.1~12.5Ghz
RF Switch BoxWireless
Communications
Test Set 1Wireless
Communications
Test Set 2Network
Analyzer

Standard	
Passive	Agilent HP8753/E5062/E5071
GSM	Agilent 8960
CDMA2000	Agilent 8960
WCDMA	Agilent 8960
TDSCDMA	Agilent 8960
LTE	RS CMW500
BT	RS CMU500/200
WIFI	Agilent N4010

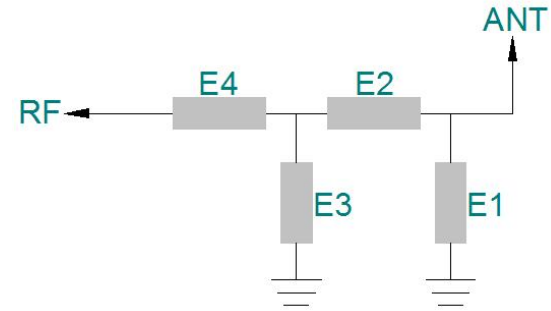
RF Link

GPIB Link

Optical Link

Serial Link

Antenna Specifications



匹配电路原理图&位号图

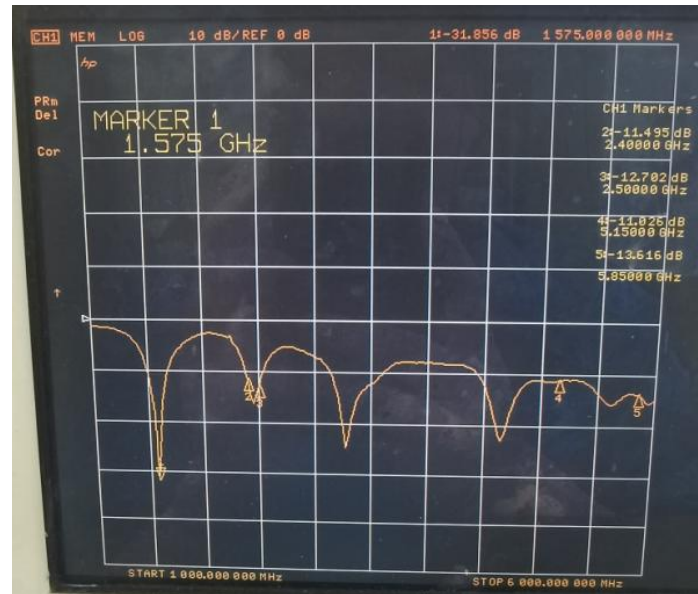
	电容 (PF)	电感 (NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	12.22	CH1 11Mbps	-77.46
	2437	CH6 11Mbps	12.29	CH6 11Mbps	-77.42
	2467	CH11 11Mbps	12.12	CH11 11Mbps	-77.31
802.11a		TRP		TIS	
	5180	CH36 6Mbps	10.21	CH36 54Mbps	-70.55
	5300	CH60 6Mbps	10.23	CH60 54Mbps	-70.49
	5805	CH161 6Mbps	10.39	CH161 54Mbps	-70.33



无源测试数据 Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	1575	2400	2500	5150	5850
VSWR	1.05	1.72	1.60	1.78	1.52
Return Loss (DB)	-31.85	-11.49	-12.70	-11.02	-13.61



ANTENNA

深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

无源测试数据

Passive test data

ANT GAIN&Efficiency-GPS

Passive Test For GPS

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1565	41.37	-3.83	-0.18	-2.33	18.595	22.772	-0.18	-18.92	3.65	0	41.42	40.95
1570	42.34	-3.73	0	-2.15	18.783	23.559	0	-19.4	3.73	0	41.5	41.03
1575	43.48	-3.62	0.05	-2.1	19.154	24.323	0.05	-19.64	3.67	0	41.68	41.23
1580	44.09	-3.56	0.13	-2.02	19.469	24.624	0.13	-19.48	3.68	0	41.78	41.35



ANTENNA

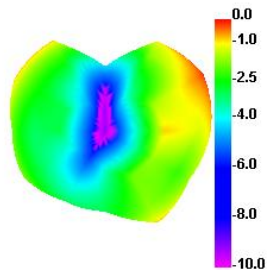
深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

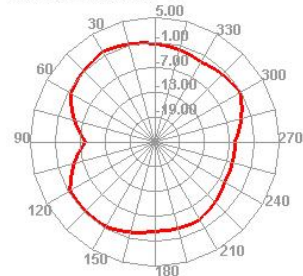
无源测试数据
Passive test data

ANT Direction of figure(GPS)

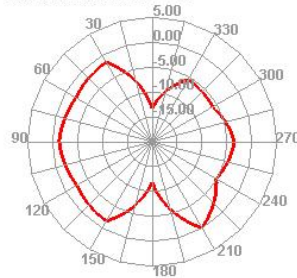
1575.000MHz



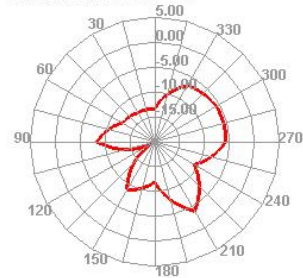
1575.000MHz H



1575.000MHz E1



1575.000MHz E2



无源测试数据 Passive test data

ANT GAIN&Efficiency-WIFI2.4G/BT

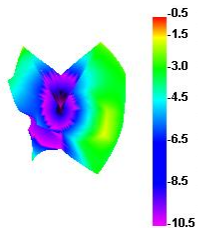
Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	35.05	-4.55	-0.5	-2.65	15.636	19.414	-0.5	-11.26	4.05	60	45.78	46.01
2410	35.01	-4.56	-0.49	-2.64	15.525	19.486	-0.49	-10.84	4.07	60	46.01	46.29
2420	37.13	-4.3	0	-2.15	16.354	20.781	0	-10.68	4.3	30	45.73	46
2430	35.34	-4.52	-0.09	-2.24	15.283	20.06	-0.09	-11.14	4.43	30	46.01	46.36
2440	35.1	-4.55	-0.13	-2.28	15.107	19.99	-0.13	-11.5	4.41	30	46.12	46.48
2450	38.1	-4.19	0.15	-2	16.402	21.701	0.15	-11.82	4.34	30	46.12	46.54
2460	40.79	-3.89	0.28	-1.87	17.694	23.095	0.28	-12.67	4.17	30	46.14	46.52
2470	39.32	-4.05	0.11	-2.04	16.971	22.353	0.11	-14.28	4.16	60	46.4	46.8
2480	40.9	-3.88	0.22	-1.93	17.612	23.286	0.22	-15.64	4.11	120	46.26	46.64
2490	43.59	-3.61	0.33	-1.82	18.823	24.767	0.33	-15.64	3.94	120	46.51	46.91
2500	41.13	-3.86	-0.26	-2.41	18.236	22.894	-0.26	-15.4	3.6	120	46.47	46.86

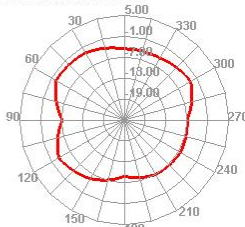
无源测试数据
Passive test data

ANT Direction of figure(2.4/BT)

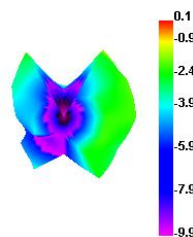
2400.000MHz



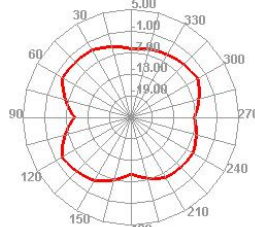
2400.000MHz H



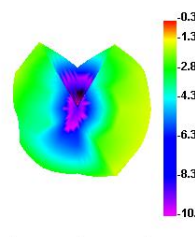
2450.000MHz



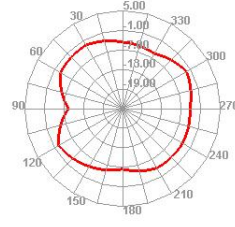
2450.000MHz H



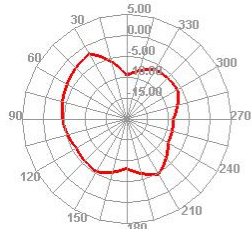
2500.000MHz



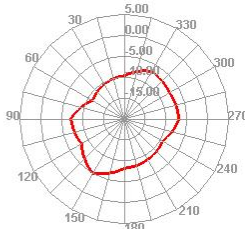
2500.000MHz H



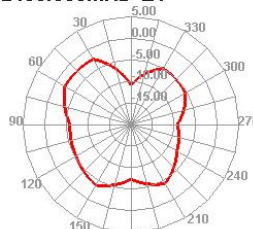
2400.000MHz E1



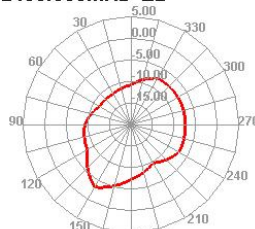
2400.000MHz E2



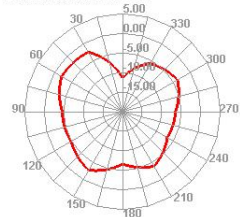
2450.000MHz E1



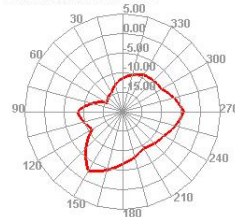
2450.000MHz E2



2500.000MHz E1



2500.000MHz E2





无源测试数据

Passive test data

ANT GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	26.08	-5.84	-0.86	-3.01	16.98	9.102	-0.86	-18.7	4.97	30	49.82	49.4
5170	22.98	-6.39	-1.62	-3.77	14.952	8.03	-1.62	-20.91	4.76	30	50.13	49.77
5190	27.61	-5.59	-0.81	-2.96	18.019	9.595	-0.81	-17.77	4.78	30	50.42	49.95
5210	26.22	-5.81	-1.07	-3.22	16.905	9.317	-1.07	-16.47	4.75	30	50.88	50.49
5230	27.93	-5.54	-0.74	-2.89	18.073	9.853	-0.74	-20.35	4.8	30	50.42	50.08
5250	32.15	-4.93	0	-2.15	21.036	11.11	0	-19.84	4.92	30	51.02	50.72
5270	34.44	-4.63	0.44	-1.71	22.629	11.814	0.44	-17.83	5.07	30	50.85	50.6
5290	38.5	-4.15	0.84	-1.31	25.246	13.249	0.84	-15.03	4.99	30	51.34	51.12
5310	35.04	-4.55	0.26	-1.89	22.856	12.187	0.26	-17.47	4.82	30	50.44	50.36
5330	36.68	-4.36	0.52	-1.63	24.234	12.45	0.52	-21.43	4.87	30	51.08	51.01
5350	38.39	-4.16	0.91	-1.24	25.545	12.846	0.91	-18.73	5.06	30	51.02	51.01
5370	36	-4.44	0.58	-1.57	23.773	12.222	0.58	-16.9	5.02	30	50.91	50.95
5390	32.99	-4.82	0	-2.15	21.572	11.42	0	-17.86	4.82	30	50.46	50.43
5410	37.1	-4.31	0.37	-1.78	24.291	12.81	0.37	-19.05	4.68	30	51.18	51.09
5430	35.21	-4.53	0.2	-1.95	23.188	12.024	0.2	-20.54	4.73	30	50.69	50.7
5450	36.61	-4.36	0.43	-1.72	24.193	12.42	0.43	-18.68	4.79	30	50.71	50.85
5470	35.56	-4.49	0.03	-2.12	23.32	12.236	0.03	-18.24	4.52	30	50.93	50.83
5490	35.76	-4.47	-0.19	-2.34	23.35	12.414	-0.19	-17.98	4.28	30	50.92	50.79
5510	37.74	-4.23	0	-2.15	24.546	13.193	0	-18.71	4.23	30	51.18	51.16
5530	37.19	-4.3	0.01	-2.14	24.043	13.149	0.01	-16.87	4.31	30	51.44	51.3
5550	39.11	-4.08	0.31	-1.84	25.326	13.78	0.31	-15.52	4.39	30	51.89	51.76
5570	40.84	-3.89	0.68	-1.47	26.2	14.642	0.68	-15.68	4.57	30	51.42	51.33
5590	39.4	-4.04	0.69	-1.46	25.156	14.247	0.69	-16.56	4.73	30	51.71	51.76
5610	39.55	-4.03	0.79	-1.36	25.243	14.304	0.79	-16.26	4.82	30	51.17	51.22
5630	34.84	-4.58	0.24	-1.91	22.113	12.731	0.24	-15.65	4.82	30	51.78	51.77
5650	40.04	-3.97	0.78	-1.37	25.533	14.511	0.78	-15.74	4.76	30	51.47	51.55
5670	41.16	-3.85	1.09	-1.06	26.069	15.095	1.09	-17.39	4.94	30	52.12	52.28
5690	41.1	-3.86	1.08	-1.07	25.98	15.124	1.08	-18.29	4.94	30	52.12	52.25
5710	40.55	-3.92	1.24	-0.91	25.564	14.984	1.24	-17.52	5.16	30	51.95	52.05
5730	43.26	-3.64	1.49	-0.66	27.133	16.122	1.49	-17.38	5.13	30	51.59	51.69
5750	38.07	-4.19	0.94	-1.21	23.905	14.161	0.94	-20.31	5.14	30	51.12	51.15
5770	41.54	-3.82	1.43	-0.72	25.983	15.557	1.43	-20.94	5.25	30	51.02	51.06
5790	35.62	-4.48	0.71	-1.44	22.158	13.464	0.71	-20.31	5.2	30	51.08	51.16
5810	38.12	-4.19	0.93	-1.22	23.737	14.38	0.93	-19.32	5.12	30	51.36	51.43
5830	37.9	-4.21	0.99	-1.16	23.66	14.242	0.99	-18.71	5.2	30	51.65	51.66
5850	42.2	-3.75	1.6	-0.55	26.306	15.894	1.6	-19.06	5.34	30	51.88	52.05



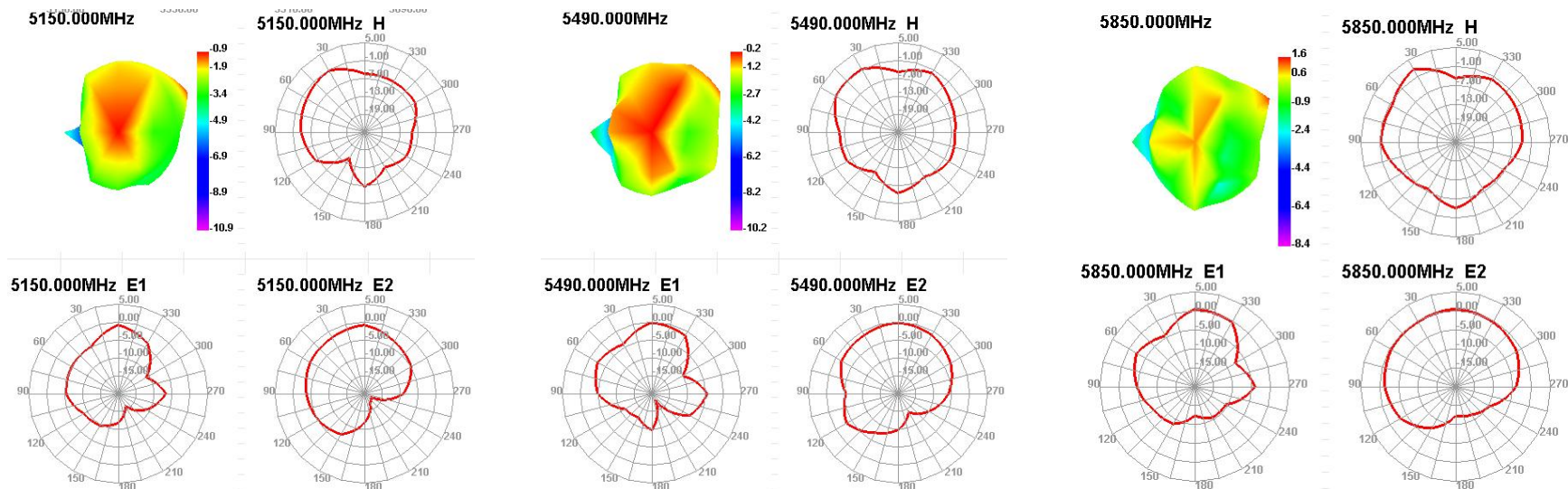
ANTENNA

深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

无源测试数据
Passive test data

ANT Direction of figure(5G)



天线尺寸图

Antenna size diagram

天线特写照

